



KEYED NOTES:

- ① SECURE WITH 1/2" WIDE ALUMINUM STRAPS, 16" CENTERS.

DRAWING DEVELOPED FOR ML-3 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).

FREEZE PROTECTION DETAIL

SCALE: NONE

NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE LEM MECHANICAL POC.
2. FOR CRITICAL FACILITIES, A CIRCUIT CONTINUITY ALARM MAY BE REQUIRED. REFER TO IEEE STD 622 FOR NUCLEAR FACILITIES.
3. SUGGESTED HEATER CABLE SPECIFICATION FOR TRAILERS/TRANSPORTABLES POTABLE AND FIRE WATER PIPING. COORDINATE DESIGN WITH MANUFACTURER'S REPRESENTATIVE.
 - a) SELF REGULATING HEATER CABLE, 3 WATTS/FT, 120V, NO. LT3-CB, WITH POWER CONNECTION KIT, NO. PLT-BC-[B3]*, AND THERMOSTAT, NO TF4X40, MFR: NELSON HEAT TRACING SYSTEM, (505) 256-1300, OR APPROVED EQUAL.

*SPECIFY: "B3" FOR PIPE SIZES UP TO 3", "B12" FOR PIPE SIZES LARGE THAN 3" TO 12".

2	9-8-02	U	REVISED KEY NOTES AND DESIGNER NOTES.	RP	JR	GC	GC	TD
1	5-10-01	U	REVISED TO COMPLY WITH DRAFTING MANUAL. ADDED KEYED NOTES & DESIGNER NOTE. REVISED FLOOR PENETRATION.	RP	RR	KB	TD	TO
NO	DATE	CLASS REV	DESCRIPTION	OWN	VER	CHK'D	SUB	APP

FWO

Los Alamos National Laboratory

FACILITY & WASTE OPERATIONS

SYSTEMS ENGINEERING & MAINTENANCE

LANL ENGINEERING MANUAL

FREEZE PROTECTION DETAIL
WATER PIPING

BLDG. X

TA-X

DATE

5-28-99

SUBMITTED

APPROVED FOR RELEASE

DISCIPLINE POC: GILINDER GREWAL

STANDARDS MANAGER: TOSH GRUCH

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1 of 1

CLASSIFICATION U

REVIEWER LARRY BAYS

DATE

PROJECT ID

DRAWING NO

REV

CHAPTER 6

ST6900

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